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List of Current Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1 - 11 (Cancelled).

12. (New) A flow measuring device for determining and/or monitoring the volume, and/or mass, flow rate of a medium flowing through a containment in a streaming direction, comprising:

at least one ultrasonic transducer, which emits and/or receives ultrasonic measuring signals; and

a control/evaluation unit, which determines the volume, and/or mass, flow rate of the medium in the containment on the basis of the ultrasonic measuring signals according to the travel-time-difference principle or according to the Doppler principle, wherein:

associated with said control/evaluation unit is at least one component of high power uptake; and

said control/evaluation unit is embodied such that said at least one component of high power uptake is operated intermittently in a measuring phase and in an idle phase, wherein said at least one component is activated in the measuring phase, while said at least one component has a reduced power uptake, or is turned off, in the idle phase.

13. (New) The flow measuring device as claimed in claim 12, wherein: the flow measuring device is a clamp-on flow measuring device or a measuring

device which can be placed within the containment.

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- 14. (New) The flow measuring device as claimed in claim 12, wherein: said at last one the component of high power uptake is one of: an amplifier, an analog/digital converter, a microprocessor or a logic chip.
- 15. (New) The flow measuring device as claimed in claim 12, further comprising:

at least one component having a switching function, said at least one component having the switching function activates, or deactivates, said at least one component of high power uptake.

- 16. (New) The flow measuring device as claimed in claim 14, wherein: a mechanism for decreasing current consumption is integrated into said at least one component of high power takeup.
- 17. (New) The flow measuring device as claimed in claim 15, wherein: said at least one component having a switching function comprises a semiconductor switch.
- 18. (New) The flow measuring device as claimed in claim 12, wherein: the time span between two successive measuring, or idle, phases of said at least one component of high power uptake and/or the duration of a measuring phase (t₂)and/or the duration of an idle phase (t₁) of said at least one component of high power uptake is/are predetermined.
- 19. (New) The flow measuring device as claimed in claim 12, further comprising:

an input unit, via which the time span between two successive measuring, or idle, phases of said at least one component of high power takeup and/or the duration of a measuring phase (t_2) and/or the duration of an idle phase (t_1) of said at least one component of high power takeup is predeterminable.

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20. (New) The device as claimed in claim 12, wherein:

said control/evaluation unit determines the travel time of the measuring signals on the basis of predetermined system and/or process variables and specifies the time span between two successive measuring, or idle, phases of said at least one component of high power takeup and/or the duration of a measuring phase (t_2) and/or the duration of an idle phase (t_1) of said ast least one component of high power takeup, as a function of the determined travel time.

21. (New) The flow measuring device as claimed in claim 12, wherein:

said control/evaluation unit determines the travel time of the measuring signals on the basis of predetermined system and/or process variables, and said control/evaluation unit predetermines the time span between two successive measuring, or idle, phases of said at least one component of high power takeup and/or the duration of a measuring phase (t_2) and/or the duration of an idle phase (t_1) of said at least one component of high power takeup, as a function of the determined travel time and as a function of the energy which is available.

22. (New) The flow measuring device as claimed in claim 12, further comprising:

an energy storage element associated with said control/evaluation unit, which is sized such that it can at least store the energy required in the measuring phase.